

In the Specification

Amend the paragraph beginning on Page7, line 12, as follows:

--In Fig. 3 only scheduling for VPRNs to one side of the edge router is illustrated. In embodiments of the invention a similar scheduler is implemented for BGP peering with core routers of the service provider's network. Fig. 3 serves to illustrate the process with core routers as well, by replacing the VPRN event pipelines with pipelines for the BGP peers in the core. In this case a first and second scheduler and first and second ready list are provided for VPRNs and core events, respectively. In some embodiments each of the scheduling processes, one for the core and one for the VPRNs, receives fifty percent of the computing resources of the router. In some embodiments the computing resources can be shared differently, granting more computing power to one side than to the other.----